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MODIFICATION INSTRUCTIONS
for the
Kodak X-Omat MULTILOADER 300 (ML 300)
Service Code: 3058

Modification No. 45
Type 2

Purpose: To improve PROCESSOR reliability by:
- changing the AC input voltage to the QUAD POWER SUPPLY from 240 V AC to 120 V AC. This allows the POWER SUPPLY to run cooler.
- installing a new QUAD POWER SUPPLY. The existing QUAD POWER SUPPLY may be damaged from the heat from operation at 240 V AC.

Important
Use qualified personnel to install this modification.

Service Effects:	Add the new WIRING DIAGRAM to the DIAGRAMS SECTION in the SERVICE MANUAL, Publication No. SM3058-3.
Special Requirements:	None
Serial Numbers:	All *Kodak X-Omat* 270 RA PROCESSORS in the ML300. This Modifcation is not for the *Kodak X-Omat* MULTILOADER 300 PLUS.
Installation Time:	1.5 hours
Special Tools:	PIN EXTRACTING TOOL TL-1580
Parts Status:	MODIFICATION KIT 3H8299 is available at Service Parts Management at no charge until February 2000.
Parts Requirements:	See Page 2.

HEALTH IMAGING

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This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

MODIFICATION KIT 3H8299 includes:

Part No.	Description	Qty.	Notes
3H0648	QUAD POWER SUPPLY	1	
3H8295	WIRING KIT includes: - WIRE #13 - WIRE #14 - CONNECTOR J9 WIRING AY - 30 WIRE TIES - 3 EYELET WIRE TIES	1	
3H5994	MODIFICATION INSTRUCTIONS	1	Includes: 1 WIRING DIAGRAM

Installing the New QUAD POWER SUPPLY

Warning
Dangerous Voltage

[1] De-energize the PROCESSOR.

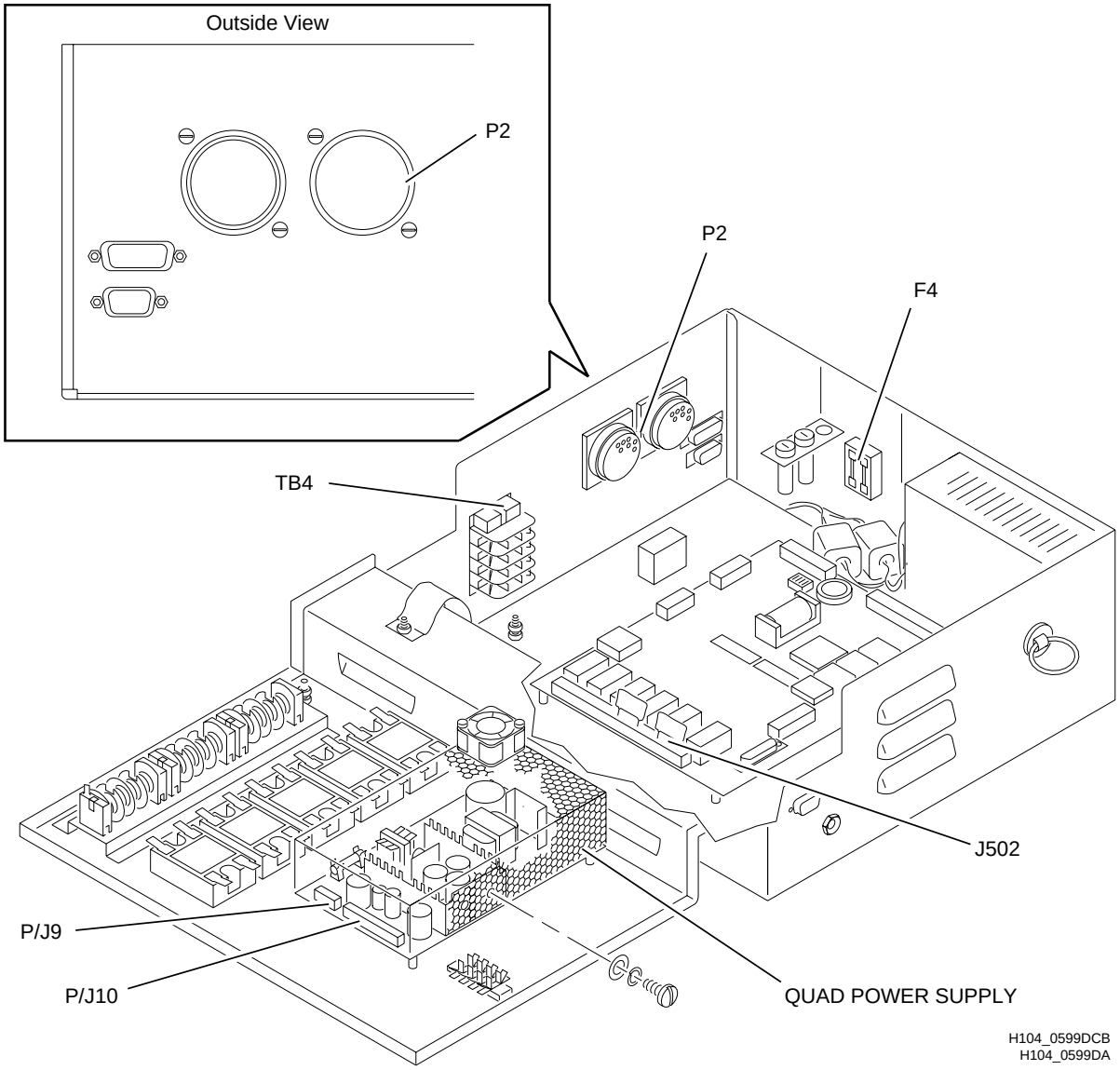
[2] Extend the PROCESSOR from the MULTILOADER.

[3] Remove the EXIT PANEL.

[4] Slide the ELECTRICAL BOX out and open the ELECTRICAL BOX COVER.

[5] Remove the COVER from the QUAD POWER SUPPLY.

Figure 1 **ELECTRICAL BOX**



[6] Disconnect CONNECTORS J9 and J10 from the QUAD POWER SUPPLY.

[7] Remove the existing QUAD POWER SUPPLY from the ELECTRICAL BOX and discard.

[8] Install the new QUAD POWER SUPPLY in the ELECTRICAL BOX.

[9] Connect CONNECTOR J10 to the QUAD POWER SUPPLY.

Note
Do not install CONNECTOR J9 at this time.

Removing the Existing 240 V AC WIRES from Inside the ELECTRICAL BOX

[1] Locate the following in the ELECTRICAL BOX: (See Figure 1.)

- TERMINAL BLOCK TB4
- INTERNAL WIRING HARNESS that the WIRES from CONNECTOR J9 go into

[2] Remove the NUTS from the HARNESS EYELET WIRE TIES, that secure the INTERNAL WIRING HARNESS to the ELECTRICAL BOX.

[3] Cut any WIRE TIES to remove the J9 WIRES from the INTERNAL WIRING HARNESS.

Note
Note the positions of the GROUND WIRE, WASHERS, and NUT.

[4] Remove:

- yellow/green J9 GROUND WIRE from the GROUNDING STUD
- J9 WIRE 35 from TERMINAL 2 of TB4
- J9 WIRE 36 from TERMINAL 3 of TB4

[5] Discard the existing CONNECTOR J9 and WIRING AY.

Installing the New 120 V AC WIRES Inside the ELECTRICAL BOX

[1] Disconnect CONNECTOR J2 from CONNECTOR P2 on the rear of the ELECTRICAL BOX.

Note
If CONNECTOR P2 has WIRES going to positions 6 and 9, do Steps 2 through 8. If there are no WIRES going to positions 6 and 9, do Steps 4 through 8.

[2] Remove:

- one end of WIRE 32 from position 6 of CONNECTOR P2 using the PIN EXTRACTING TOOL TL-1580 and the other end of the WIRE from FUSE TERMINAL F4
- one end of WIRE 13 from position 9 of CONNECTOR P2 using the PIN EXTRACTING TOOL TL-1580 and the other end of the WIRE from CONNECTOR J502, position 17

[3] Pull the WIRES out of the WIRING HARNESS and discard.

Important
Press the PIN TERMINALS into the CONNECTOR until they snap into position.

[4] Insert the PIN TERMINAL end of WIRE 13 from the new CONNECTOR J9 WIRING AY into position 9 of CONNECTOR P2.

[5] Insert the PIN TERMINAL end of WIRE 14 from the new CONNECTOR J9 WIRING AY into position 6 of CONNECTOR P2.

Important
The GROUND WIRE, WASHERS, and NUT must be installed in the same sequence as they were when removed.

[6] Install:

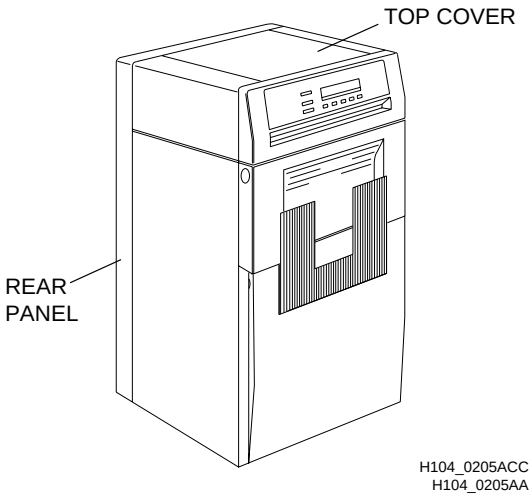
- new J9 yellow/green GROUND WIRE, WASHERS, and NUT to the GROUND STUD. Tighten the NUT.
- CONNECTOR J9 on the QUAD POWER SUPPLY
- COVER on the QUAD POWER SUPPLY

[7] Fasten the new J9 WIRES to the INTERNAL WIRING HARNESS with the new WIRE TIES provided.

[8] Secure the INTERNAL WIRING HARNESS to the ELECTRICAL BOX STUDS with the new EYELET WIRE TIES.

Installing the New 120 V AC Wiring Outside the ELECTRICAL BOX

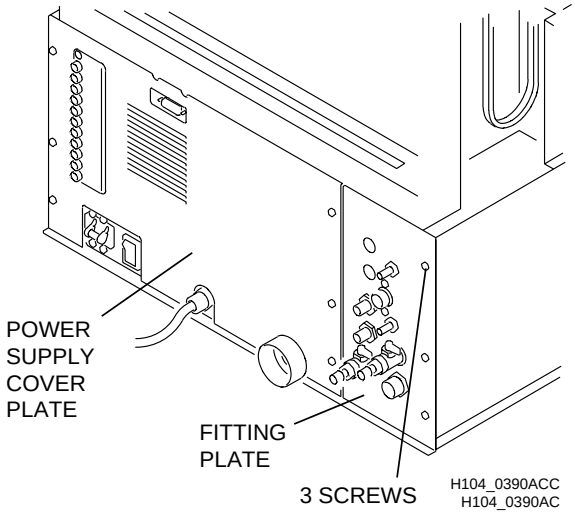
Figure 2 **MULTILOADER 300**



[1] Remove:

- TOP COVER
- REAR PANEL

Figure 3 **COVER AND FITTING PLATES**

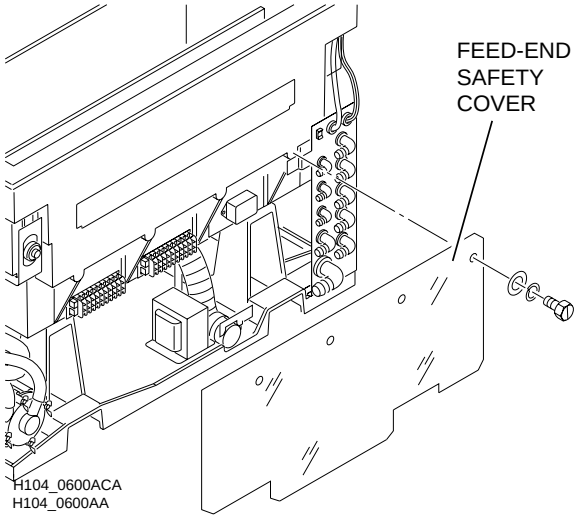


[2] Remove and save:

- POWER SUPPLY COVER PLATE
- SCREWS that attach the FITTING PLATE.

[3] Extend the PROCESSOR from the MULTILOADER as far as it will go by allowing the FITTING PLATE and HOSES to move into the PROCESSOR. This will allow access to the FEED-END SAFETY COVER SCREWS.

Figure 4 **FEED-END SAFETY COVER**



[4] Remove the FEED-END SAFETY COVER from the PROCESSOR and save the SCREWS and WASHERS.

[5] From the feed-end of the PROCESSOR, pull out the J2 WIRING HARNESS.

[6] Loosen the SCREWS for the STRAIN RELIEF on CONNECTOR J2.

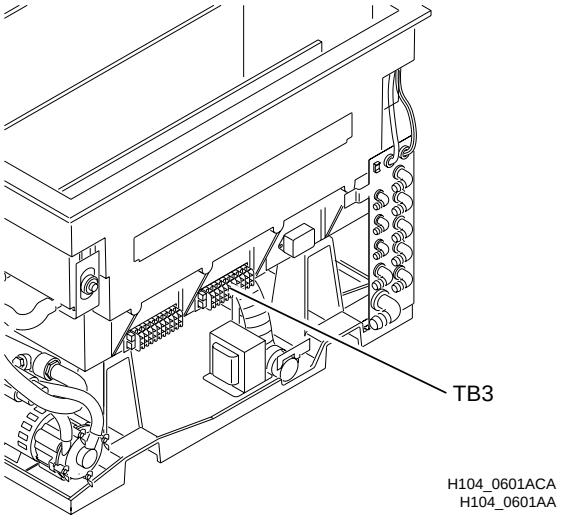
[7] Rotate the body of the CONNECTOR to disassemble.

[8] Slide the STRAIN RELIEF backward to have access to the WIRE TERMINALS.

Note

If CONNECTOR J2 has WIRES going to positions 6 and 9, do Steps 9 through 19. If there are no WIRES going to positions 6 and 9, do Steps 11 through 19.

Figure 5 **TERMINCAL BLOCK TB3**



[9] Using the PIN EXTRACTING TOOL TL-1580 remove:

- one end of WIRE 32 from position 6 of CONNECTOR J2 and the other end of the WIRE from TB3-3
- one end of WIRE 13 from position 9 of CONNECTOR J2 and the other end of the WIRE from TB3-8

[10] Cut any WIRE TIES to allow the WIRES to be pulled out of the WIRING HARNESS and discard the WIRES.

Important

Press the SOCKET TERMINALS into CONNECTOR J2 until they snap into position.

[11] Insert:

- SOCKET TERMINAL end of the new WIRE 13 into position 9 of CONNECTOR J2 and connect the other end to TB3-5 or TB3-8
- SOCKET TERMINAL end of the new WIRE 14 into position 6 of CONNECTOR J2 and the other end of the WIRE to TB3-4

[12] Secure the new WIRES 13 and 14 to the existing WIRE HARNESS using the WIRE TIES from the MODIFICATION KIT.

[13] Assemble the CONNECTOR J2 and STRAIN RELIEF.

[14] Feed the J2 WIRING HARNESS back into the PROCESSOR and connect it to CONNECTOR P2 on the ELECTRICAL BOX.

[15] Close the ELECTRICAL BOX and slide it back into the PROCESSOR.

[16] Replace the FEED-END SAFETY COVER.

[17] Reverse the procedure to slide the PROCESSOR back into the MULTILOADER.

[18] Install:

- FITTING PLATE
- POWER SUPPLY COVER PLATE
- REAR PANEL
- TOP COVER

Final Steps

Figure 6 **MULTILOADERS 300 with Serial No. 1369 and Below**

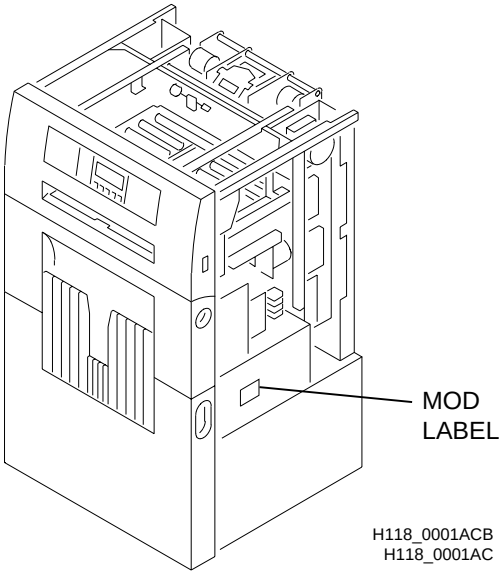
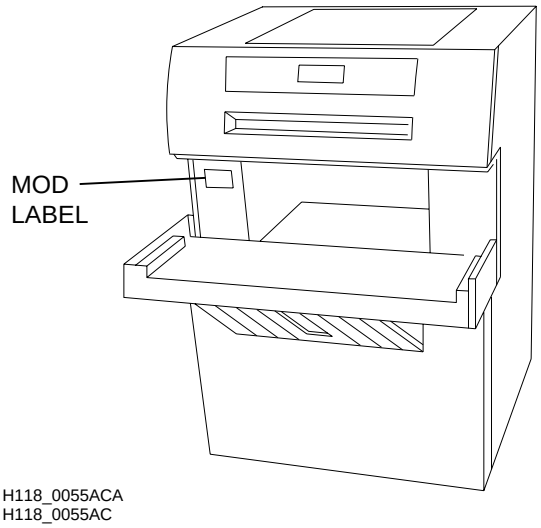


Figure 7 **MULTILOADERS 300 with Serial No. 1370 and Above**



[1] Circle “45” on the MODIFICATION LABEL.

[2] Install the PANELS.

[3] Energize the PROCESSOR and MULTILOADER.

Warning
Dangerous Voltage

[4] Check for correct operation of the MULTILOADER.

Publication History

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